

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04Q 7/22, 7/38	A3	(11) International Publication Number: WO 99/45725 (43) International Publication Date: 10 September 1999 (10.09.99)
(21) International Application Number: PCT/SE99/00269 (22) International Filing Date: 25 February 1999 (25.02.99) (30) Priority Data: 9800652-1 3 March 1998 (03.03.98) SE (71) Applicant (for all designated States except US): TELIA AB (publ) [SE/SE]; Mårbackagatan 11, S-123 86 Farsta (SE). (72) Inventors; and (75) Inventors/Applicants (for US only): FRANK, Robert [SE/SE]; Torggatan 16 F, S-185 32 Vaxholm (SE). WINROTH, Mats, Olof [SE/SE]; Jasmin Weg 3, D-85586 Poing (DE). (74) Agent: PRAGSTEN, Rolf; Telia Research AB, Vitsandsgatan 9, S-123 86 Farsta (SE).		(81) Designated States: EE, JP, LT, LV, NO, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims</i> <i>and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 4 November 1999 (04.11.99)
(54) Title: PROCEDURE IN A MOBILE TELEPHONE SYSTEM TO TRANSMIT POSITION SPECIFICATIONS (57) Abstract The invention relates to a procedure to transmit a position specification, especially at emergency call from a mobile telephone in a mobile telecommunications system to an emergency centre. The position of the mobile is found out by the system and is transmitted to a mobile station for storing. When an emergency call is made from the mobile station, a position specification is transmitted automatically by a separate message to the emergency centre. In the emergency centre, the message with the position specification is routed to the same terminal as receives the telephone call. This is possible on account of that both the telephone call and the message with the position specification include information about the number of the mobile station.		

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Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

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CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
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CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	NZ	New Zealand		
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EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/00269

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04Q 7/22, H04Q 7/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	FR 2755567 A1 (BOUYGUES TELECOM SOCIETE ANONYME), 7 May 1998 (07.05.98), abstract --	1-6
X	EP 0647076 A1 (COMPAGNIE FINANCIERE POUR LE RADIOTELEPHONE S.A.), 5 April 1995 (05.04.95), column 1, line 1 - column 7, line 3 --	1-6
A	WO 9642179 A1 (PONELINK PLC), 27 December 1996 (27.12.96), abstract -- -----	1-6

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

8 Sept 1999

Date of mailing of the international search report

14-09-1999

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Stefan Hansson/MN

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

Information on patent family members

02/08/99

International application No.

PCT/SE 99/00269

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
FR	2755567	A1	07/05/98	NONE			

EP	0647076	A1	05/04/95	FR	2711023	A,B	14/04/95
				FR	2711033	A,B	14/04/95

WO	9642179	A1	27/12/96	AU	5826396	A	09/01/97
				GB	2310974	A	10/09/97
				GB	9511843	D	00/00/00
				GB	9700581	D	00/00/00

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04Q 7/22, 7/38	A2	(11) International Publication Number: WO 99/45725 (43) International Publication Date: 10 September 1999 (10.09.99)
(21) International Application Number: PCT/SE99/00269 (22) International Filing Date: 25 February 1999 (25.02.99) (30) Priority Data: 9800652-1 3 March 1998 (03.03.98) SE (71) Applicant (for all designated States except US): TELIA AB (publ) [SE/SE]; Mårbackagatan 11, S-123 86 Farsta (SE). (72) Inventors; and (75) Inventors/Applicants (for US only): FRANK, Robert [SE/SE]; Torggatan 16 F, S-185 32 Vaxholm (SE). WINROTH, Mats, Olof [SE/SE]; Jasmin Weg 3, D-85586 Poing (DE). (74) Agent: PRAGSTEN, Rolf; Telia Research AB, Vitsandsgatan 9, S-123 86 Farsta (SE).		(81) Designated States: EE, JP, LT, LV, NO, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: PROCEDURE IN A MOBILE TELEPHONE SYSTEM TO TRANSMIT POSITION SPECIFICATIONS (57) Abstract The invention relates to a procedure to transmit a position specification, especially at emergency call from a mobile telephone in a mobile telecommunications system to an emergency centre. The position of the mobile is found out by the system and is transmitted to a mobile station for storing. When an emergency call is made from the mobile station, a position specification is transmitted automatically by a separate message to the emergency centre. In the emergency centre, the message with the position specification is routed to the same terminal as receives the telephone call. This is possible on account of that both the telephone call and the message with the position specification include information about the number of the mobile station.		

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(PCT Rule 61.2)

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Date of mailing (day/month/year)

09 December 1999 (09.12.99)

International application No.

PCT/SE99/00269

Applicant's or agent's file reference

Case 657 PCT

International filing date (day/month/year)

25 February 1999 (25.02.99)

Priority date (day/month/year)

03 March 1998 (03.03.98)

Applicant

FRANK, Robert et al

1. The designated Office is hereby notified of its election made:

☒

in the demand filed with the International Preliminary Examining Authority on:

30 September 1999 (30.09.99)

in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☒

was

☐

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

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Authorized officer

C. Cupello

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Case 657 PCT	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/SE99/00269	International filing date (day/month/year) 25.02.1999	Priority date (day/month/year) 03.03.1998
International Patent Classification (IPC) or national classification and IPC7 H04Q 7/22, H04Q 7/38		
Applicant Telia AB (publ) et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 1 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☒ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 30.09.1999	Date of completion of this report 06.06.2000
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer Stefan Hansson / MRo Telephone No. 08-782 25 00

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00269

I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

- ☐ the international application as originally filed.
- ☒ the description, pages 1 - 4, as originally filed,
 pages _____, filed with the demand,
 pages _____, filed with the letter of _____,
 pages _____, filed with the letter of _____.
- ☒ the claims, Nos. _____, as originally filed,
 Nos. _____, as amended under Article 19,
 Nos. _____, filed with the demand,
 Nos. 1 - 6, filed with the letter of 28.03.2000,
 Nos. _____, filed with the letter of _____.
- ☐ the drawings, sheets/fig _____, as originally filed,
 sheets/fig _____, filed with the demand
 sheets/fig _____, filed with the letter of _____,
 sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00269

II. Priority

1. ☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
- ☐ copy of the earlier application whose priority has been claimed.
- ☐ translation of the earlier application whose priority has been claimed.
2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid.

Thus for the purpose of this report, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

The priority is considered to be valid. Consequently, document FR 2755567 is of no relevance.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE9900269

V. Resoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	<u>1-6</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-6</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-6</u>	YES
	Claims		NO

2. Citations and explanationsThe claimed invention

The claimed invention relates to a procedure to transmit a position specification, especially at emergency call from a mobile telephone in a mobile telecommunications system to an emergency center. The position of the mobile is determined by the system and is transmitted to the mobile station for storing. When an emergency call is made from the mobile station, a position specification is transmitted automatically by a separate message to the emergency center.

The claims have been amended.

The following documents have been cited in the International Search Report

D1: FR 2755567 A1

D2: EP 647076 A1

D3: WO 9642179 A1

D2 relates to cellular radio communication system within geographical network. The system has network switching subsystems connected to a base subsystem which has a controller (BSc) connected to the base station for each geographical cell. The network switching subsystems have a mobile switching service (MSc) which is connected to a server (11) that provides the individual local information to a given mobile user and belongs to a group of vocal or digital servers. The base substation synthesizes a first message for each communication by a mobile station and transmits it to the network switching subsystem. The system searches for and extracts this first message. Position information contained in the message is extracted and sent to the server that provides local information contained in a complementary message.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00269

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V.

However, D2 fails to disclose any method of co-ordinate position information and the verbal contact to a dedicated operator in the answering system. Consequently, the claimed invention as in claims 1-6 is considered to be novel, to involve an inventive step and to have industrial applicability.

Document D3 is considered to merely disclose the state of the art and is not commented on further.

**REPLACED BY
ART 34 AMDT**

PATENT CLAIMS

1. Procedure to transmit position specification in mobile telephone system including base stations and mobile stations, c h a r a c t e r i z e d in the steps:
 - that a position specification is transmitted to a mobile station which stores the position specification;
 - that a specific telephone call is made from the mobile to a centre which has a receiving terminal;
 - 10 - that the specific call triggers off that the position specification is collected and is transmitted in a separate message to the centre.
2. Procedure as claimed in patent claim 1, c h a r a c t e r i z e d in that the telephone call and the message both include information about the subscriber number of the mobile station, so that the message is routed to the same receiving terminal.
3. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the position specification is transmitted out on cell level via a general (cell broadcast; CB) message.
4. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the position specification is stored in an application on the mobile station's subscriber card (SIM).
5. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the message is of the type short text message (SMS) or USSD (Unstructured Supplementary Services Data) or UUS (User-to-User Signalling).
6. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the telephone call is an emergency call, and the centre is an emergency centre.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Case 657 PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/SE99/00269	International filing date (day/month/year) 25.02.1999	Priority date (day/month/year) 03.03.1998
International Patent Classification (IPC) or national classification and IPC7 H04Q 7/22, H04Q 7/38		
Applicant Telia AB (publ) et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
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- ☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

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- I ☒ Basis of the report
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Date of submission of the demand 30.09.1999	Date of completion of this report 06.06.2000
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer Stefan Hansson / MRö Telephone No. 08-782 25 00

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00269

I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

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- ☒ the description, pages 1 - 4, as originally filed,
 pages _____, filed with the demand,
 pages _____, filed with the letter of _____,
 pages _____, filed with the letter of _____.
- ☒ the claims, Nos. _____, as originally filed,
 Nos. _____, as amended under Article 19,
 Nos. _____, filed with the demand,
 Nos. 1 - 6, filed with the letter of 28.03.2000,
 Nos. _____, filed with the letter of _____.
- ☐ the drawings, sheets/fig _____, as originally filed,
 sheets/fig _____, filed with the demand
 sheets/fig _____, filed with the letter of _____,
 sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/00269

II. Priority

1. ☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:

☐ copy of the earlier application whose priority has been claimed.
☐ translation of the earlier application whose priority has been claimed.
2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid.

Thus for the purpose of this report, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

The priority is considered to be valid. Consequently, document FR 2755567 is of no relevance.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE9900269

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-6</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-6</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-6</u>	YES
	Claims		NO

2. Citations and explanations

The claimed invention

The claimed invention relates to a procedure to transmit a position specification, especially at emergency call from a mobile telephone in a mobile telecommunications system to an emergency center. The position of the mobile is determined by the system and is transmitted to the mobile station for storing. When an emergency call is made from the mobile station, a position specification is transmitted automatically by a separate message to the emergency center.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V.

However, D2 fails to disclose any method of co-ordinate position information and the verbal contact to a dedicated operator in the answering system. Consequently, the claimed invention as in claims 1-6 is considered to be novel, to involve an inventive step and to have industrial applicability.

Document D3 is considered to merely disclose the state of the art and is not commented on further.

28 -03- 2000

PATENT CLAIMS

1. Procedure to transmit position specification in mobile telephone system including base stations and mobile stations, c h a r a c t e r i z e d in the steps:

- that a position specification is transmitted to a mobile station which stores the position specification;

- that a specific telephone call is made from the mobile to a centre which has a receiving terminal;

- that the specific call triggers off that the position specification is collected and is transmitted in a separate message to the centre;

- that the position is transmitted via short text message (SMS) to the centre, which by A-number-analyse identify where to route the SMS-message and verbal contact is connected to the same operator in the centre, and the operator identify the area from which the mobile calls.

2. Procedure as claimed in patent claim 1, c h a r a c t e r i z e d in that the telephone call and the message both include information about the subscriber number of the mobile station, so that the message is routed to the same receiving terminal.

3. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the position specification is transmitted out on cell level via a general (cell broadcast; CB) message.

4. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the position specification is stored in an application on the mobile station's subscriber card (SIM).

5. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the message is of the type short text message (SMS) or USSD (Unstructured Supplementary Services Data) or UUS (User-to-User Signalling).

6. Procedure as claimed in any of the previous patent claims, c h a r a c t e r i z e d in that the telephone call is an emergency call, and the centre is an emergency centre.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/00269

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04Q 7/22, H04Q 7/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	FR 2755567 A1 (BOUYGUES TELECOM SOCIETE ANONYME), 7 May 1998 (07.05.98), abstract --	1-6
X	EP 0647076 A1 (COMPAGNIE FINANCIERE POUR LE RADIOTELEPHONE S.A.), 5 April 1995 (05.04.95), column 1, line 1 - column 7, line 3 --	1-6
A	WO 9642179 A1 (PONELINK PLC), 27 December 1996 (27.12.96), abstract -- -----	1-6

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search

8 Sept 1999

Date of mailing of the international search report

14-09-1999

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INTERNATIONAL SEARCH REPORT

Information on patent family members

02/08/99

International application No.

PCT/SE 99/00269

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
FR	2755567	A1	07/05/98	NONE			
EP 0647076 A1			05/04/95	FR	2711023	A,B	14/04/95
				FR	2711033	A,B	14/04/95
WO 9642179 A1			27/12/96	AU	5826396	A	09/01/97
				GB	2310974	A	10/09/97
				GB	9511843	D	00/00/00
				GB	9700581	D	00/00/00